

# ABSTRACT

[0031] To measure a tire and check that its characteristics conform with those expected, a unique machine is provided which can take into account the parameters corresponding to a test carried out with or without load, whether at rest or in rotation, and whether static or dynamic. It is shown that by choosing to mount the tire vertically in the machine with its rotation axis horizontal, all the calibration problems of machines of the prior art are resolved. In particular, a roller (22) in contact with the tire is provided with piezoelectric cells (Y, Z) which measure applied forces, while in addition the machine itself rests on pads (17 - 18) provided with piezoelectric cells to measure the forces it supports.